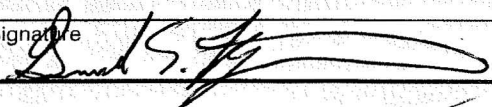
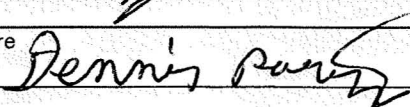
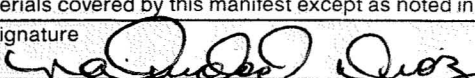

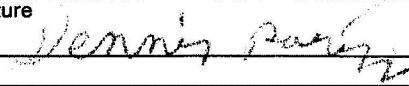


UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W 4 0 9 8 0 7 3 8 5 4 9 9 3 0 0 1		Manifest Document No. 9 3 0 0 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address ALASKAN COPPER AND BRASS COMPANY 628 South Hanford Street Seattle WA 98134		6. US EPA ID Number CA ID 9 8 0 5 8 4 5 1 0		A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone (206) 623-5801		5. Transporter 1 Company Name CKC INC.		7. Transporter 2 Company Name		C. State Transporter's ID		D. Transporter's Phone (408) 627-2595	
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Phoenix, Arizona 85043		10. US EPA ID Number A Z D 9 8 0 7 3 5 5 0 0		8. US EPA ID Number		E. State Transporter's ID 320033		F. Transporter's Phone	
						G. State Facility's ID		H. Facility's Phone (602) 233-9166	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <input type="checkbox"/> HM RQ. HAZARDOUS WASTE SOLID, N.O.S. ORM-E, NA9189 (F006)		No. Type 0 0 3 C F		4 2 6 6		P XX		F006	
b. <input type="checkbox"/>									
c. <input type="checkbox"/>									
d. <input type="checkbox"/>									
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above 01			
15. Special Handling Instructions and Additional Information *** 24 HOUR EMERGENCY RESPONSE: 1-(800) 424-9300 CHEMTREC *** WEAR GOGGLES AND GLOVES									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name GERALD A. THOMPSON				Signature 		Month Day Year 01 12 93			
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name DENNIS PORTNEY		Signature 		Month Day Year 01 12 93	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space #E) TRANSPORTER ID # should be in C.									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name NATIVIDAD DIAZ.				Signature 		Month Day Year 02 10 93			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W A 0 9 8 9 7 3 8 9 4 9 8 0 0 1		Manifest Document No. 9 8 0 0 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address ALASKAN COPPER AND BRASS COMPANY 628 South Hanford Street Seattle WA 98134						A. State Manifest Document Number									
4. Generator's Phone (206) 623-5801						B. State Generator's ID									
5. Transporter 1 Company Name CNC INC.						C. State Transporter's ID									
6. US EPA ID Number I C A D P B B D B B A B L D						D. Transporter's Phone (408) 627-2595									
7. Transporter 2 Company Name						E. State Transporter's ID 320033									
8. US EPA ID Number						F. Transporter's Phone									
9. Designated Facility Name and Site Address W R Resources Company 8113 West Sherman Street Phoenix, Arizona 85043						G. State Facility's ID									
10. US EPA ID Number A 2 D 9 8 0 7 3 5 5 0 0						H. Facility's Phone (602) 233-9166									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. <input type="checkbox"/> HM RQ. HAZARDOUS WASTE SOLID, N.O.S. ORM-E, NA9189 (F006)						0 0 3 C F		4 2 6 6		P XX		F006			
b. <input type="checkbox"/>															
c. <input type="checkbox"/>															
d. <input type="checkbox"/>															
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information *** 24 HOUR EMERGENCY RESPONSE: 1-(800) 424-9300 CHEMTREC *** WEAR GOGGLES AND GLOVES															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name GERALD A. THOMPSON						Signature 						Month Day Year 0 1 2 9 3			
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name DENNIS PORTNEY						Signature 		Month Day Year 0 1 2 9 3	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Month Day Year	
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name						Signature						Month Day Year			

MSDS-1

Material Safety Data Sheet

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street

Phoenix, Arizona 85043

Telephone Number: 1-602-233-9166

Issued: 8/7/90

Revised: 2/6/91

Call CHEMTREC only in the event
of emergencies during shipping that
involve a spill, leak, fire, or accident

For Emergencies During

Shipping Call:

CHEMTREC

Day or Night

800-424-9300

Outside Continental U.S. Call:

202-483-7616 Collect

All calls are recorded.

Section 1

PRODUCT - MATERIAL IDENTIFICATION

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge

Environmental Protection Agency (EPA) Waste Classification: F006

Chemical Family: Metallic (Hydroxide) Precipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

DOT Shipping Name: Hazardous Waste Solid, N.O.S.

DOT Hazard Class: ORM-E

DOT Identification Number: NA-9189

DOT Emergency Response Guide 31 Applies

Section 2

HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	7440-50-8	0-30	1.0 mg/m ³ (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	7440-02-0	0-15	1.0 mg/m ³ (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg/m ³ (Dust)	LD-50 7,340 mg/kg
Diatomaceous Earth	68855-54-9	0-10	6.0 mg/m ³ (Dust)	LD-50 3,160 mg/kg

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,
Gray/Green to Brown,
Water Content 30-80%

Specific Gravity: 1 to 1.4

Solubility: Insoluble in water

Density: 64 to 90 lbs/cu ft

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant

Stability: Avoid contact with acids

Polymerization: Will not occur

Boiling Point: Above 2600°C

Melting Point: Above 1800°C

pH: 7.0 to 10.0

Odor: Nil

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable

Special Firefighting Procedures: None

Product Decomposition: (Due to Fire or Explosion): None

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA

Fire Diamond



Section 5

TOXICITY

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide)

Route of Entry: Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

Section 7

PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

Section 8

CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.

Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.

Hand Protection: Gloves recommended.

Section 9

GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 93001 Telephone: (206) 623-5800 Date: 1/25/93

Company Name and Address: ALASKAN COPPER WORKS

628 S. Hanford Street Seattle, WA 98134

Signature:

AZF-WRC 2/91

AKC-0018393

ALASKAN COPPER & BRASS COMPANY*Stainless Steel**Aluminum***Recyclable Material**

JANUARY 25 1993

MANIFEST 93001

US DOT Description	Container		Quantity	Unit	Waste No.
	No.	Type			
RQ HAZARDOUS WASTE SOLID	1	CF	1358	P	F-006
NOS ORM-E NA 9189					
RQ HAZARDOUS WASTE SOLID	1	CF	1355	P	F-006
NOS ORM-E NA9189					
RQ HAZARDOUS WASTE SOLID	1	CF	1553	P	F-006
NOS ORM - E NA 9189					
Total Quantity			4266		

Weighed

By: 

Verified

By: 

MSDS-1

Material Safety Data Sheet

Recycler's Facility Name and Site Address:

World Resources Company
8113 West Sherman Street
Phoenix, Arizona 85043

Telephone Number: 1-602-233-9166

Issued: 8/7/90

Revised: 2/6/91

Call CHEMTREC only in the event
of emergencies during shipping that
involve a spill, leak, fire, or accident

For Emergencies During

Shipping Call:

CHEMTREC

Day or Night

800-424-9300

Outside Continental U.S. Call:

202-483-7616 Collect

All calls are recorded.

Section 1

PRODUCT - MATERIAL IDENTIFICATION

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge

Environmental Protection Agency (EPA) Waste Classification: F006

Chemical Family: Metallic (Hydroxide) Precipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

DOT Shipping Name: Hazardous Waste Solid, N.O.S.

DOT Hazard Class: ORM-E

DOT Identification Number: NA-9189

DOT Emergency Response Guide 31 Applies

Section 2

HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	7440-50-8	0-30	1.0 mg/m ³ (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	7440-02-0	0-15	1.0 mg/m ³ (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg/m ³ (Dust)	LD-50 7,340 mg/kg
Diatomaceous Earth	68855-54-9	0-10	6.0 mg/m ³ (Dust)	LD-50 3,160 mg/kg

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,
Gray/Green to Brown,
Water Content 30-80%

Specific Gravity: 1 to 1.4

Solubility: Insoluble in water

Density: 64 to 90 lbs/cu/ft

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant

Stability: Avoid contact with acids

Polymerization: Will not occur

Boiling Point: Above 2600°C

Melting Point: Above 1800°C

pH: 7.0 to 10.0

Odor: Nil

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable

Special Firefighting Procedures: None

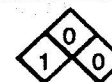
Product Decomposition: (Due to Fire or Explosion): None

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA

Fire Diamond



Section 5

TOXICITY

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide)

Route of Entry: Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

Section 7

PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

Section 8

CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.

Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.

Hand Protection: Gloves recommended.

Section 9

GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 93001 Telephone: (206) 623-5800 Date: 1/25/93

Company Name and Address: ALASKAN COPPER WORKS

628 S. Hanford Street Seattle, WA 98134

Signature:

AZF-WRC 2/91

AKC-0018395

No. _____	WORLD RESOURCES COMPANY	
From <u>ALASKAN COPPER & BRASS CO.</u>	8113 W. Sherman St. Phoenix, AZ 85043	
	Load of <u>F-006</u>	
<u>37 720</u> Gross	Driver { On _____ Off _____	
<u>33 580</u> Tare	Fees _____ Date <u>02-02</u> 19 <u>93</u>	
<u>4160</u> Net	<u>2.08 TON</u>	Weigher _____

WORLD RESOURCES COMPANY

8113 WEST SHERMAN STREET / PHOENIX, ARIZONA 85043 / (602) 233-9166

FEB 03 1993

Mr. Gerald A. Thompson
Alaskan Copper Works
628 South Hanford Street
Seattle, Washington 98134

Dear Mr. Thompson:

Enclosed is the appropriate copy of the Uniform Hazardous Waste Manifest and the weigh ticket resulting from the transfer of the recyclable materials by your company to World Resources Company (WRC) and the transportation of these recyclable materials to the WRC Recycling Facility in Arizona for the purpose of recovering the metal values therein.

Sincerely,

WORLD RESOURCES COMPANY



Manifest Coordinator

Enclosures

Recycled Paper

AKC-0018397